

## **APPENDIX IV:**

### **MACROINVERTEBRATE VOUCHER SPECIMENS**

18 May 2007

Walter Levernier  
V3 Companies of Illinois Ltd.  
7325 Janes Ave.  
Woodridge, IL 60517

Dear Walter,

I have examined the specimens you sent us in February, 2007 and found them all to have been identified correctly, as far as I could determine.

Thank you for continuing to deposit voucher specimens from your surveys in the Purdue Entomological Research Collection.

Sincerely,



Arwin Provonsha  
Curator of Collections



February 6, 2007

Dr. Arwin Provonsha  
Department of Entomology  
901 W. State Street  
West Lafayette, IN 47907-2089

Re: Invertebrate Voucher Specimens  
Anderson River Watershed  
Crawford, Dubois, Perry and Spencer Counties, Indiana

Dear Dr. Provonsha:

Enclosed you will find fifty-six (56) representative macroinvertebrate specimens in individually labeled vials. The accompanying photo-documentation of each provides location and taxonomic identification. Also enclosed is a station location map and table. This voucher collection is being submitted to Purdue University Department of Entomology as part of the Anderson River Diagnostic Study. This project is being done for the Perry County Soil and Water Conservation District and the Indiana Department of Natural Resources through the Lake and River Enhancement (LARE) program. It would be greatly appreciated if our identification of these specimens could be verified.

Please contact me at 630-729-6290 if you have any questions or concerns. Thank you very much.

Sincerely,

V3 COMPANIES, LTD.

Walter Levernier  
Ecologist

Edward J. Belmonte  
Senior Ecologist/Project Manager

WGL/lg

Attachments

cc: Darlene Fischer, Perry Co. SWCD  
Angela Sturdevant, IDNR  
V3 File



Anderson River  
Diagnostic Study  
Photo 1  
Vial 1

11/27/06

*Aeshnidae Basiaeschna*  
sp.

Stations 2, 5, 7, 8, 9, 10,  
14, 15, 16, 17, 18, 19, 20,  
21, 22, 23, 25



Anderson River  
Diagnostic Study  
Photo 2  
Vial 2

11/27/06

*Belostomatidae Belostoma*  
sp.

Stations 2, 7, 8, 9, 20



Anderson River  
Diagnostic Study  
Photo 3  
Vial 3

11/27/06

*Notonectidae Notonecta*  
sp.

Stations 2, 25





Anderson River  
Diagnostic Study  
Photo 4  
Vial 4

11/27/06

*Coenagrionidae Argia* sp.

Stations 2, 5, 6, 7, 8, 9, 10,  
14, 16, 17, 18, 19, 20, 21,  
23, 24, 25



Anderson River  
Diagnostic Study  
Photo 5  
Vial 5

10/31/06

Family: *Cambaridae*

Stations 2, 6, 7, 9, 14, 15,  
16, 17, 18, 19, 20, 21, 22,  
23, 25



Anderson River  
Diagnostic Study  
Photo 6  
Vial 6

10/31/06

Family: *Lymnaeidae*

Stations 2, 7, 8, 15, 16, 17



Anderson River  
Diagnostic Study  
Photo 7  
Vial 7

10/31/06

Family: *Physidae*

Stations 2, 6, 7, 8, 10, 14,  
15, 16, 17, 19



Anderson River  
Diagnostic Study  
Photo 8  
Vial 8

10/31/06

Family: *Palaemonidae*

Stations 2, 7, 8, 9



Anderson River  
Diagnostic Study  
Photo 9  
Vial 9

10/31/06

*Haliplidae Peltodytes* sp.

Stations 2, 7, 15, 16, 17





Anderson River  
Diagnostic Study  
Photo 10  
Vial 10

10/31/06

Family: *Elmidae*

Stations 2, 5, 6, 7, 20



Anderson River  
Diagnostic Study  
Photo 11  
Vial 11

10/31/06

Family: *Elmidae*

Stations 2, 6, 8, 9, 10, 16,  
19, 24, 25



Anderson River  
Diagnostic Study  
Photo 12  
Vial 12

10/31/06

*Talitridae Hyalella azteca*

Stations 2, 5, 9, 10, 14, 15,  
17, 20, 25



Anderson River  
Diagnostic Study  
Photo 13  
Vial 13

11/1/06

Class: *Turbellaria*

Stations 2, 7, 9, 19, 20



Anderson River  
Diagnostic Study  
Photo 14  
Vial 14

11/1/06

Family: *Hydropsychidae*

Stations 2, 5, 6, 8, 9, 10,  
14, 17, 18, 19, 20, 21, 22,  
23, 24, 25



Anderson River  
Diagnostic Study  
Photo 15  
Vial 15

11/1/06

*Calopterygidae*  
*Calopteryx* sp.

Stations 5, 6, 8, 9, 10, 14,  
17, 18, 19, 20, 21, 24, 25





Anderson River  
Diagnostic Study  
Photo 16  
Vial 16

11/1/06

Family: *Philopotamidae*

Stations 5, 6, 7, 8, 9, 10,  
19, 20, 22, 25



Anderson River  
Diagnostic Study  
Photo 17  
Vial 17

11/1/06

Family: *Gerridae* *Trepobates* sp.

Stations 2, 5, 6, 7, 9, 10,  
14, 15, 16, 17, 18, 19, 21,  
24, 25



Anderson River  
Diagnostic Study  
Photo 18  
Vial 18

11/1/06

Family: *Chironomidae*

Stations 2, 5, 6, 7, 8, 9, 10,  
14, 15, 16, 17, 18, 19, 20,  
21, 22, 23, 24



Anderson River  
Diagnostic Study  
Photo 19  
Vial 19

11/1/06

Family: *Simuliidae*

Stations 5, 6, 20, 22



Anderson River  
Diagnostic Study  
Photo 20  
Vial 20

11/1/06

Family: *Culicidae*

Stations 5, 6, 7, 8, 9, 14,  
15, 16, 18, 19, 20, 21, 23,  
24, 25



Anderson River  
Diagnostic Study  
Photo 21  
Vial 21

11/1/06

Family: *Tabanidae*

Stations 5, 6, 7, 10, 14, 16,  
17, 19, 20, 21, 24, 25





Anderson River  
Diagnostic Study  
Photo 22  
Vial 22

11/1/06

*Coenagrionidae*  
*Enallagma* sp.

Stations 6, 7, 8, 9, 10, 14,  
15, 16, 17, 19, 20, 21, 22,  
23, 24



Anderson River  
Diagnostic Study  
Photo 23  
Vial 23

11/2/06

*Corbiculidae* *Corbicula*  
*fluminea*

Stations 2, 6, 7, 8, 9, 15,  
16, 21, 23



Anderson River  
Diagnostic Study  
Photo 24  
Vial 24

11/2/06

Class: *Oligochaeta*

Stations 6, 7, 9, 14, 16, 17,  
18, 19, 20, 21, 23, 24



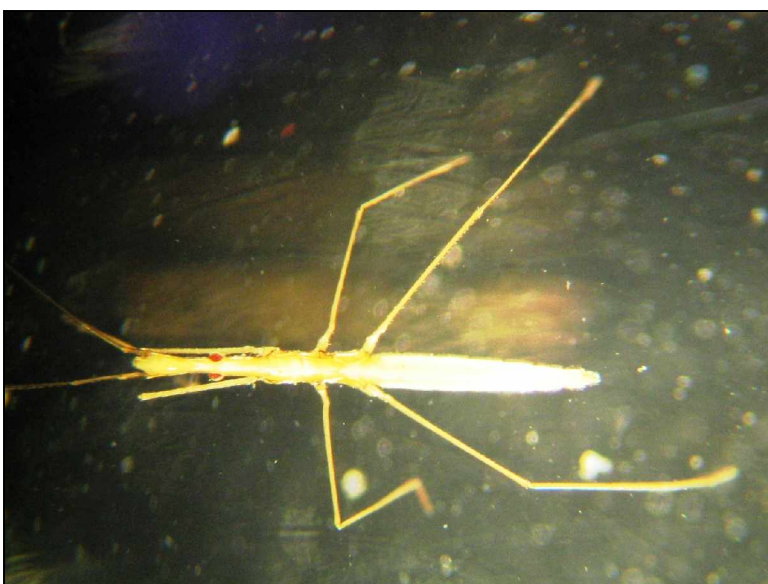


Anderson River  
Diagnostic Study  
Photo 25  
Vial 25

11/2/06

Family: *Gerridae*

Stations 6, 14, 15, 18, 23,  
25



Anderson River  
Diagnostic Study  
Photo 26  
Vial 26

11/2/06

*Hydrometridae*  
*Hydrometra* sp.

Stations 6, 9, 17, 19



Anderson River  
Diagnostic Study  
Photo 27  
Vial 27

11/2/06

*Heptageniidae Stenonema*  
sp.

Stations 6, 7, 10, 14, 15,  
16, 17, 18, 19, 20, 21, 22,  
23, 24, 25



Anderson River  
Diagnostic Study  
Photo 28  
Vial 28

11/2/06

*Caenidae Caenis* sp.

Stations 6, 9, 10, 15, 17,  
18, 19, 20, 21, 23, 24



Anderson River  
Diagnostic Study  
Photo 29  
Vial 29

11/2/06

Family: *Baetidae*

Stations 2, 5, 6, 8, 9, 10,  
14, 15, 17, 18, 19, 20, 21,  
22, 23, 24



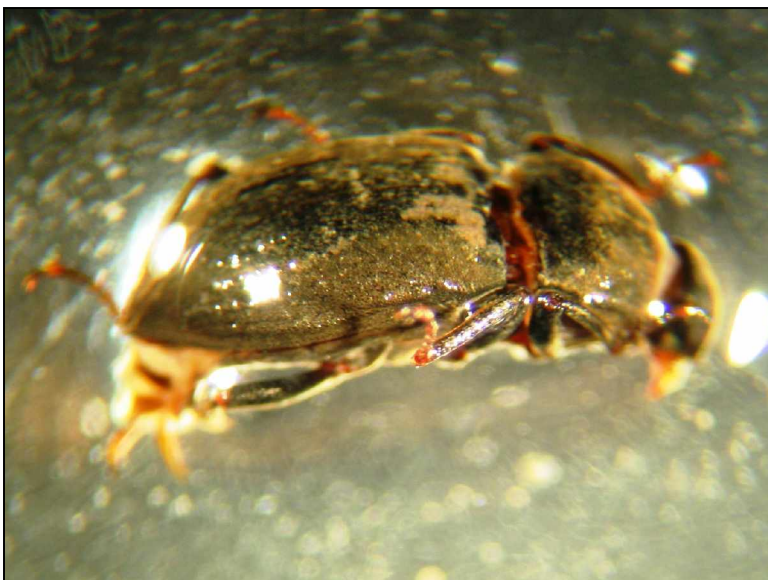
Anderson River  
Diagnostic Study  
Photo 30  
Vial 30

11/2/06

*Hydrophilidae*  
*Tropisternus* sp.

Stations 6, 8, 9, 10, 14, 25





Anderson River  
Diagnostic Study  
Photo 31  
Vial 31

11/2/02

Family: *Dryopidae*

Stations 5, 6, 8, 9, 10, 15,  
16, 17, 18, 20, 21, 22, 24,  
25



Anderson River  
Diagnostic Study  
Photo 32  
Vial 32

11/2/06

Family: *Viviparidae*

Station 7



Anderson River  
Diagnostic Study  
Photo 33  
Vial 33

11/2/06

Family: *Gomphidae*

Stations 7, 8, 9, 10, 14, 17,  
21, 23, 24





Anderson River  
Diagnostic Study  
Photo 34  
Vial 34

11/6/06

*Macromiidae Macromia*  
sp.

Stations 8, 17



Anderson River  
Diagnostic Study  
Photo 35  
Vial 35

11/6/06

Family: *Sphaeriidae*

Station 8



Anderson River  
Diagnostic Study  
Photo 36  
Vial 36

11/6/06

*Gyrinidae Dineutus* sp.

Stations 8, 15, 20, 21



Anderson River  
Diagnostic Study  
Photo 37  
Vial 37

11/7/06

*Corduliidae Epitheca* sp.

Stations 9, 25



Anderson River  
Diagnostic Study  
Photo 38  
Vial 38

11/7/06

Family: "Red"  
*Chironomidae*

Stations 6, 7, 9, 10, 14, 16,  
17, 18, 19, 20, 21, 22, 23,  
24, 25



Anderson River  
Diagnostic Study  
Photo 39  
Vial 39

11/7/06

Family: *Noteridae*

Stations 8, 9, 10, 14, 18,  
19, 24, 25





Anderson River  
Diagnostic Study  
Photo 40  
Vial 40

11/7/06

*Heptageniidae Stenacron*  
sp.

Stations 2, 5, 8, 9, 10, 14,  
21



Anderson River  
Diagnostic Study  
Photo 41  
Vial 41

11/7/06

*Sialidae Sialis* sp.

Stations 2, 10, 15, 16, 18,  
20, 23



Anderson River  
Diagnostic Study  
Photo 42  
Vial 42

11/7/06

Family: *Hydrophilidae*

Stations 10, 15, 17, 19, 24





Anderson River  
Diagnostic Study  
Photo 43  
Vial 43

11/7/06

*Cordulegastridae*  
*Cordulegaster* sp.

Station 14



Anderson River  
Diagnostic Study  
Photo 44  
Vial 44

11/13/06

Family: *Ancylidae*

Station 14



Anderson River  
Diagnostic Study  
Photo 45  
Vial 45

11/13/06

*Corydalidae* *Nigronia* sp.

Station 14



Anderson River  
Diagnostic Study  
Photo 46  
Vial 46

11/13/06

*Psephenidae Psephenus*  
sp.

Stations 14, 15, 18, 25



Anderson River  
Diagnostic Study  
Photo 47  
Vial 47

11/13/06

Family: *Planorbidae*

Stations 15, 16, 21



Anderson River  
Diagnostic Study  
Photo 48  
Vial 48

11/13/06

Order: *Hydracarina*

Stations 7, 17, 23





Anderson River  
Diagnostic Study  
Photo 49  
Vial 49

11/16/06

*Gomphidae Progomphus*  
sp.

Stations 21, 22, 24, 25



Anderson River  
Diagnostic Study  
Photo 50  
Vial 50

11/16/06

Family: *Ceratopogonidae*

Stations 22, 25



Anderson River  
Diagnostic Study  
Photo 51  
Vial 51

11/16/06

Class: *Hirudinea*

Stations 21, 23



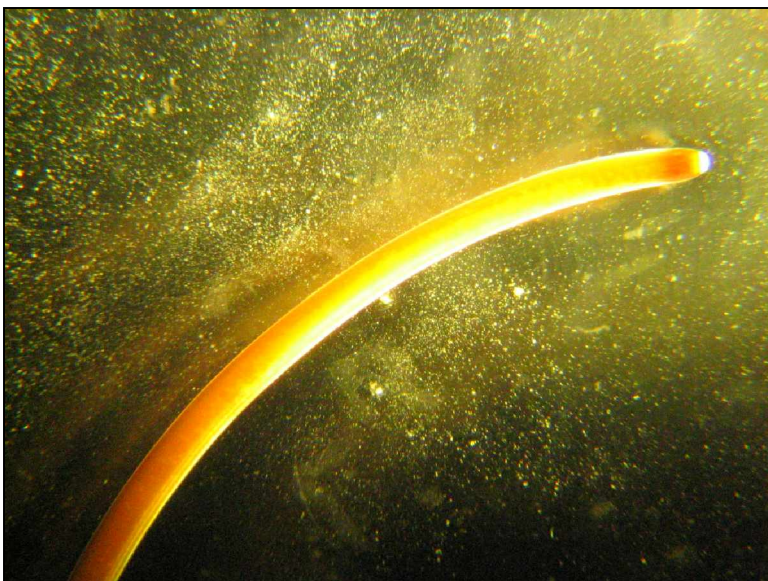


Anderson River  
Diagnostic Study  
Photo 52  
Vial 52

11/16/06

Order: *Isopoda*

Stations 18, 23, 24, 25



Anderson River  
Diagnostic Study  
Photo 53  
Vial 53

11/16/06

Phylum: *Nematomorpha*

Station 25



Anderson River  
Diagnostic Study  
Photo 54  
Vial 54

11/27/06

Family: *Chloroperlidae*

Stations 14, 18, 25





Anderson River  
Diagnostic Study  
Photo 55  
Vial 55

11/27/06

*Rhyacophilidae*  
*Rhyacophila* sp.

Stations 18, 25



Anderson River  
Diagnostic Study  
Photo 56  
Vial 56

11/27/06

*Leptophlebiidae*  
*Leptophlebia* sp.

Stations 15, 20



Anderson River  
Diagnostic Study  
Photo 57  
No Vial

11/2/06

*Pyrilidae* *Crambus* sp.

Station 7